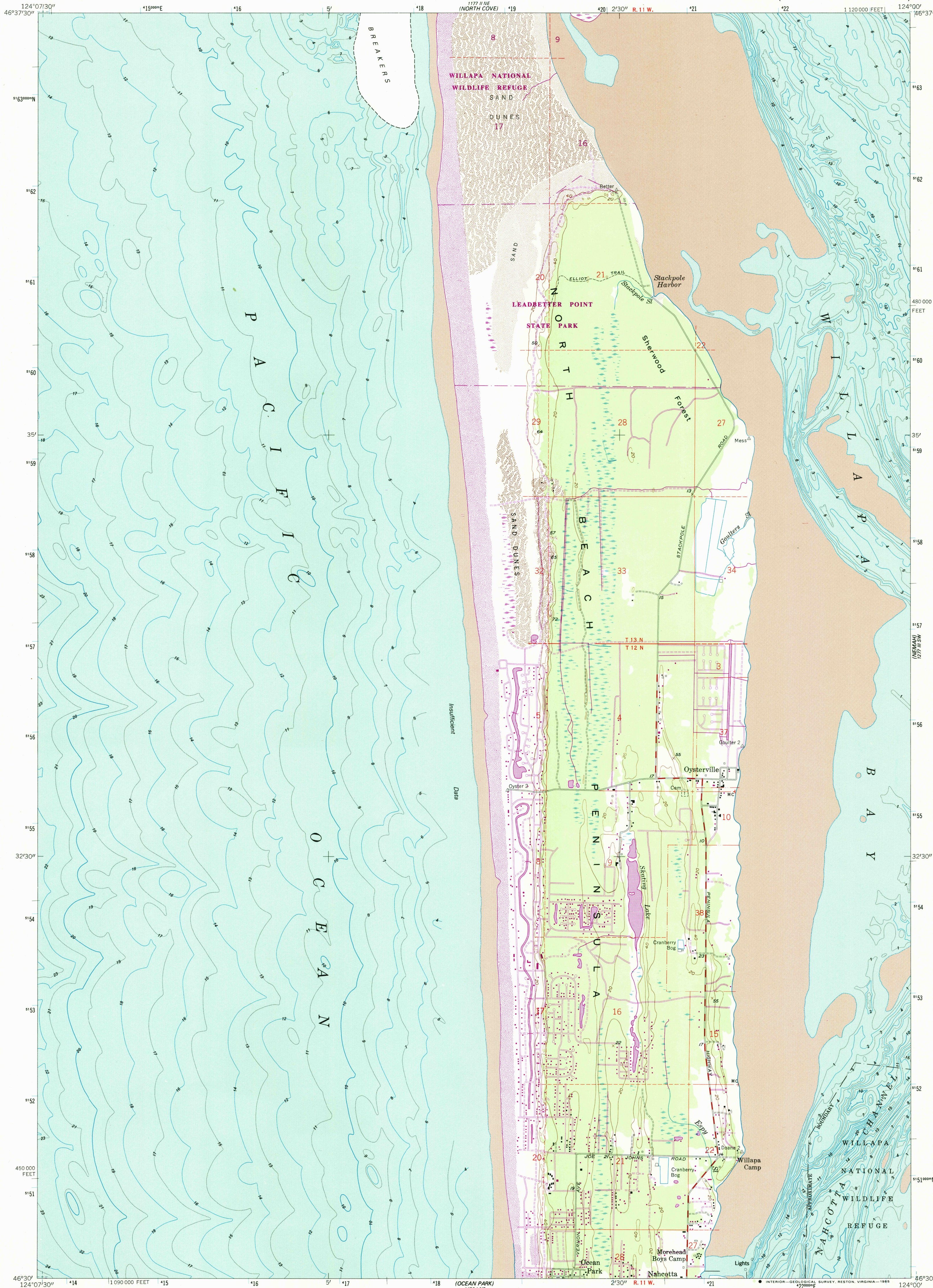
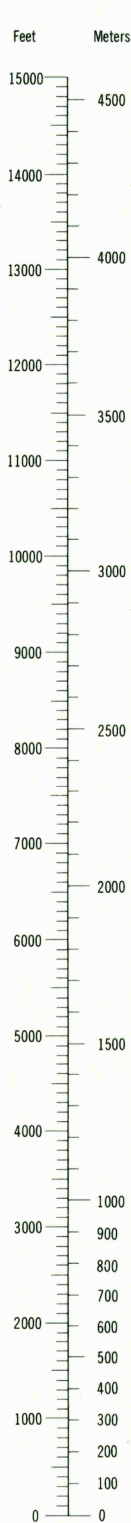


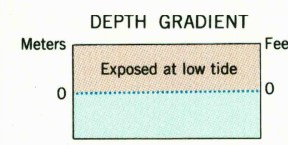


CONVERSION
SCALES



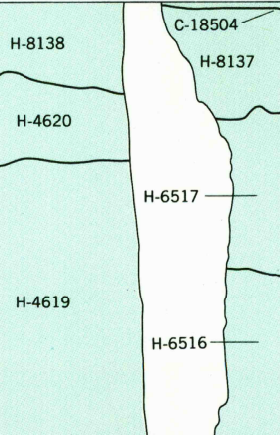
Feet	Meters
1	3048
2	6096
3	9144
4	12192
5	15240
6	18288
7	21336
8	24384
9	27432
10	30480

To convert feet to meters
multiply by 3.048
To convert meters to feet
multiply by 3.2808

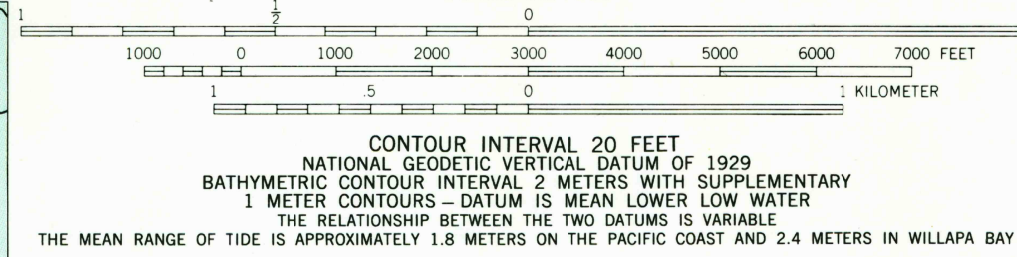


Mapped by the National Ocean Service
Edited and published by the Geological Survey
Control by NOS/NOAA
Topography from aerial photographs by multiplex methods
Aerial photographs taken 1950. Field checked 1957
Bathymetry compiled by the National Ocean Service from
tide-coordinated hydrographic surveys. This information
is not intended for navigational purposes
Mean low water (dotted) line and mean high water (heavy solid) line
compiled by NOS from tide-coordinated aerial photographs. Apparent
shoreline (outer edge of vegetation) shown by light solid line
Polyconic projection. 1927 North American Datum
10,000-foot grid based on Washington coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks,
zone 10, shown in blue
To place on the predicted North American Datum 1983,
move the projection lines 25 meters north and
97 meters east as shown by dashed corner ticks
There may be private inholdings within the boundaries of the
National or State reservations shown on this map
Dashed lines indicate approximate locations
Revisions shown in purple compiled by the Geological Survey
from aerial photographs taken 1981 and other sources
This information not field checked. Map edited 1984

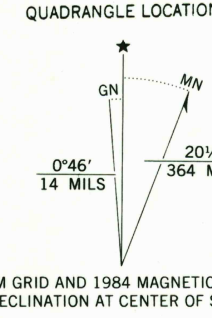
NATIONAL OCEAN SERVICE
HYDROGRAPHIC SURVEY INDEX



SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-4619	1926	1:20,000	02-23
H-4620	1926	1:20,000	04-22
H-4616	1939	1:10,000	01-09
H-6017	1939	1:10,000	02-12
H-8137	1954	1:10,000	03-08
H-8138	1954	1:15,000	02-15
NOS CHART 18504	AUGUST 7, 1982	1:40,000	



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
BATHYMETRIC CONTOUR INTERVAL 2 METERS WITH SUPPLEMENTARY
1 METER CONTOURS - DATUM IS MEAN LOWER LOW WATER
AND/OR STANDARDS USED AT THE DATE OF THE SURVEY
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
THE MEAN RANGE OF TIDE IS APPROXIMATELY 1.8 METERS ON THE PACIFIC COAST AND 2.4 METERS IN WILLAPA BAY
BASE MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
BATHYMETRIC SURVEY DATA COMPLIES WITH INTERNATIONAL HYDROGRAPHIC
ORGANIZATION (IHO) SPECIAL PUBLICATION 44 ACCURACY STANDARDS
AND/OR STANDARDS USED AT THE DATE OF THE SURVEY
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225,
OR RESTON, VIRGINIA 22092
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



OYSTERVILLE, WASH.
46124-E1-TB-024

1957
PHOTOREVISED 1984
BATHYMETRY ADDED 1984
DMA 1177 II SE - SERIES V891

